

Hydrolysis - Class PNPA Hydrolysis Kinetics Data

Molar extinction co-efficient on PNP ($M^{-1} cm^{-1}$)

pH 7 buffer	pH 8 buffer	pH 9 buffer	pH 10.5*	Group
5618	13060	16120		DF/MB
5177	13500	16290		SJ/JF
5434	13740	16610		DY/CN
5410	13433	16340		2016 Class Average
5318	14283	17214	16345	2012 Class Average
5679	14480	17447		2010 Class Average
5200	13900	16700		2006 Class Average

* $3.33 \times 10^{-3} M$ NaOH

Observed first order hydrolysis rate constants (s^{-1})

pH 7 buffer	pH 8 buffer	pH 9 buffer	pH 10.5*	pH 11.5	
	1.50E-05		2.96E-03	5.22E-02	DF/MB
		1.77E-04	1.63E-03	6.63E-02	SJ/JF
4.60E-06			2.00E-03	5.46E-02	DY/CN
4.60E-06	1.50E-05	1.77E-04	2.20E-03	5.77E-02	2016 Class Average

* not first order conditions